

# Finishline XL

## Installation Guide

## About Finishline XL

Thank you for choosing Finishline XL to fence in your property. Finishline XL will add beauty and value to your land all while giving you decades of low maintenance performance. Finishline XL has 30 years of tested durability and strength. Join the thousands of others who have used our High Quality Polymer Fencing on their farms worldwide. We are sure you will be satisfied with your purchase.

Finishline XL is as strong as high tensile wire fencing, offering 2,200 lbs. of tensile strength per strand. It is manufactured with vital UV inhibitors which delivers and maintains the fence lines strength, flexibility, and stunning appearance. Finishline XL is lightweight and easy to install. A half mile of Finishline XL weighs only 40 lbs. and it's white color and 5mm diameter offers a visible and stunning perimeter to your land all while offering you a no maintenance fence line that will look and perform as beautifully in decades to come as it does today. This simple installation is a do-it-yourselfers dream!

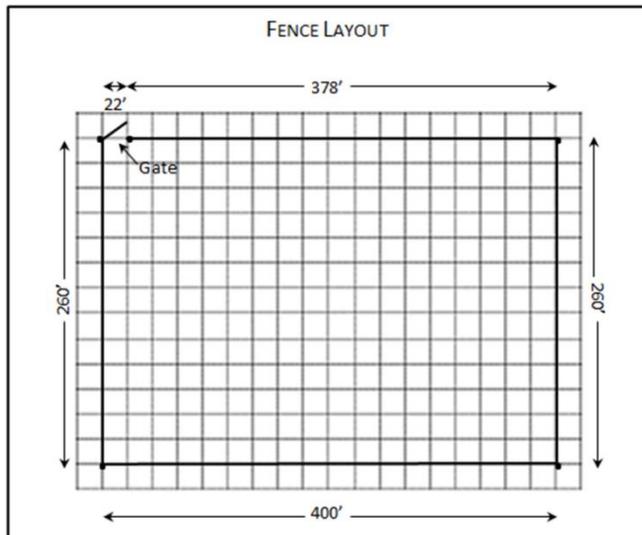
Finishline XL can withstand temperatures from -40 to 128 degrees Fahrenheit without losing its tension. No more wasted time maintaining the proper tension and viability of your fences.

Finishline XL contains no wire, which delivers several great advantages; it is lightweight thus easy to install, requires no special equipment for installation and in some cases can be tensioned by hand. Finishline XL flexes upon harsh impact from trees, debris or neighbors and will immediately return to its original tension when the tree or debris is removed from the fence.

## Pre-Installation

The prerequisite to a successful Finishline XL Installation is advanced planning, combined with proper tools and quality materials. Before you begin, walk the proposed layout to check for any obstructions that might cause you to have to modify your layout. Modifying your layout is easier in the planning stage than in the middle of installation.

When you feel confident that your proposed layout will work, draw a measured, or to scale, layout of your fence installation. This fence layout will be a valuable planning aid and will also help establish a materials list. Please see *Illustration 1.1* to the left.



*Illustration 1.1*

Note that the space between posts and the number of strands installed is determined by the intended use of the enclosure; pasture, plantings, or decorative fencing.

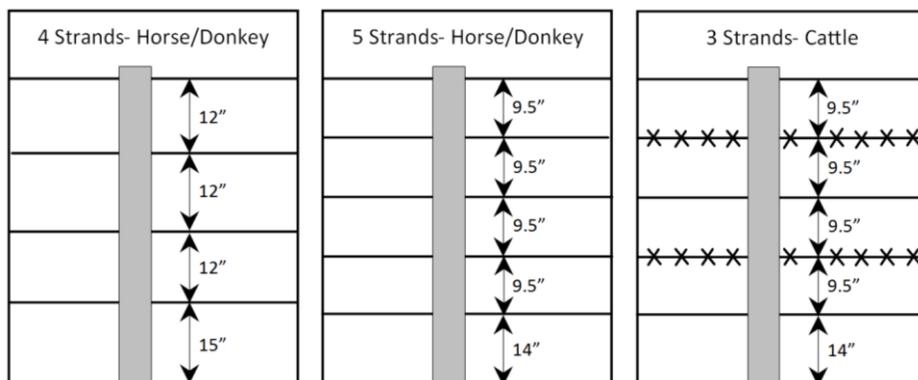
When you have completed your fence layout, contact your local utility company and schedule an inspection to determine if and where utility lines are located. Typically, in most localities, a free "One Call" program is available and response is in less than three days. THIS IS VITAL BEFORE DIGGING THE FIRST POST HOLE OR DRIVING THE FIRST POST.

Following all safety requirements and guidelines is as important as any component of your plan. This includes, but is not limited to; eye protection, gloves, and steel toed work boots. Also, use ear protection when operating power augers or post drivers.

### Recommended Number of Strands and Spacing

When installing Finishline XL, acceptable post spacing is 8 to 12 feet apart. **Finishline XL recommends using at least one strand of electric when installing your fence line if you will be containing livestock. If you choose not to use electric, please do so with caution.** If you are fencing horses please consider using *Finishline Horse fencing*. Information for this can be found on our website. {finishlinefence.com}

*Deer*- Finishline XL is an excellent option when your property has problematic deer. Higher installation and closer spacing helps to protect your land from being intruded on by deer. In most cases deer are reported to bounce off the fence without breaking it or clears the Finishline XL with minimal damage.



*Please note: Although many of our customers do not use electric with their fencing, please use caution when choosing this option. As a livestock owner, you understand best the behavior of your animals. Please use extra caution when using this option.*

### Attaching Finishline XL to your Posts

Finishline XL can be used with any type of post system. The two most common types are wood posts and t-posts. See below for the different ways to attach Finishline XL to your wood and t-posts. All choices work equally as well.

**Wood Posts** - There are three main options to attach Finishline XL to wood posts: insulators, drilling, and stapling.

#### 1- Wood Post Insulators

To use wood post insulators, simply attach to wood post with galvanized roofing nails. Once attached to the posts, run Finishline XL through the holes to keep it aligned.

#### 2- Drilling through the posts

Finishline XL can also be installed by drilling through line posts and running the Finishline XL through holes to the end post where it will be anchored. If through-the-post installation is selected, a wooden template (2" x 2" x 6') with holes pre-drilled at the selected spacing will allow fast hole alignment and allow the fence to follow the contours of the land.

- 3- To drill holes, use a battery-operated or portable generator-operated electric drill with a 5/16" or 3/8" wood drill bit. For large diameter posts, a 5/16" bell hanger installer drill bit permits drilling through the thickest posts.
- 4- Staples (standard U)  
When installing with the Staples, care should be taken to prevent crushing Finishline XL when hammering each staple. This permits the Finishline XL to slide freely without wear.

**T-Posts** – When installing Finishline XL to a T-Post, standard insulators are the preferred choice.

- 1- T-Post Insulators  
All standard T-Post Insulators work to attach Finishline XL to the posts.
- 2- T-Post Vinyl Safety Cap  
Toppers add safety and visibility for humans and livestock.

## **Installing Your Finishline XL**

When preparing to fence, it is recommended to keep each half mile coil of Finishline XL in the box. Place the box at the end post of the first run of fencing. Open the box and cut the straps off the fence line. For best result leave the fence coil in the box. Begin your fencing **by pulling the Finishline XL from the inside of the coil**. This will prevent tangling the Finishline XL. Walk with the fence line in hand to the start post and attach to the start post by either option described below.

### **Start Post**

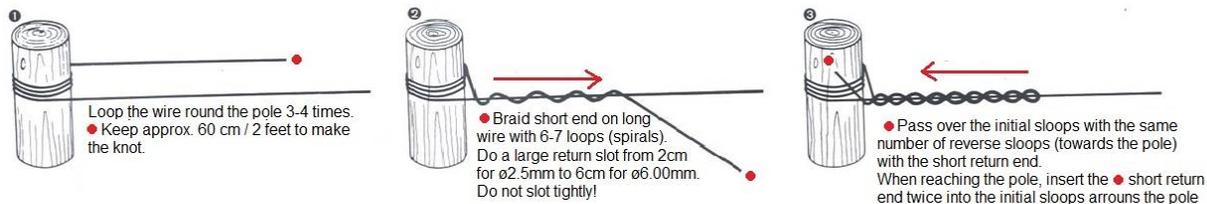
The two most common ways to begin your Finishline XL runs are as follows:

- 1- Knotting – 3/8 inch hole  
Drill a 3/8 inch hole in your start post. This post along with your corners and gates must be braced. Thread two feet of Finishline XL backwards or away from your line posts through the end post. Take a fender washer suitable for a 6 gauge wire over the Finishline XL and place the washer next to the post. Then, tie a figure eight knot with the Finishline XL to secure the line to the start post. The fender washer will be in between the knot and the post to keep the knot secure. Please see *Illustration 4.1*.



*Illustration 4.1*

2- Finishline XL Knot – no drilling necessary, follow the steps as described below:

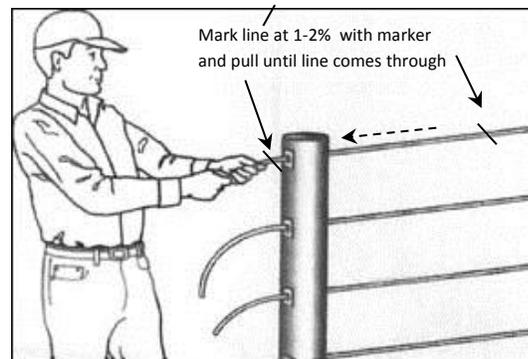


## Stretching and Securing Tension at Your End Post

There are two ways to secure the tension that you will pull on the Finishline XL.

1- A **Finishline XL Anchor Vice** is inserted into the end post for each strand of Finishline XL that is being installed. Drill a 1 inch hole starting from the outside of the fence post and approximately half way through the post.

Finish drilling the rest of the post with a 3/8 inch drill bit to allow for a better and more secure fit of the Finishline XL. Then insert one Finishline XL One-Way Anchor Vice into the end post for each strand of Finishline XL that is being installed. Thread the Finishline XL through the vice and pull all slack from the fence run. Once this is done, it is time to tension your fence.



Pull Finishline XL from the vice end, and stretch the Finishline XL 1-2% of the total strand length. Always start at the bottom strand and work your way up to the top strand. Finishline XL can be tensioned by hand strength, eliminating the need for special tools. Though when tensioning a long run, it is recommended to use a **Torq Tensioner Tool** available in our online store or by attaching a vice grip to the Finishline XL and pulling the tension with a truck or tractor or by using a fence stretcher that you may already own.

2- A **Griple D6** can be used to secure the tension at the end of the run. When reaching the last post of the run, thread the Finishline XL through the pink slot of the D6 and push down the line. Wrap the Finishline XL around the end post and then thread the end of the Finishline XL through the remaining hole in the D6 Griple. Use a Torq tensioner to tension the line the 1-2% and the Griple D6 will hold the line in place.

**Finishline XL requires a tension of 1-2% of total strand length.** For example, a 400-foot length with 1.5% tension is 6 feet (.015 X 400). As a result, you would need to tension your fence six feet.

After determining the length needed to tension the fence, measure in from the end post to the predetermined length and mark the fence line with a marker or ribbon. Begin stretching with hand strength, fence stretcher, or vice grips until the determined length is pulled through the end post vice. Using a mark on the fence or ribbon will help insure proper tension is being applied. After tension is reached, cut all but approximately one foot of your fence line.

Tack extra Finishline XL with a staple to the post for future tensioning purposes. Please be advised: do NOT pull down hard on Finishline XL with a tensioning tool or vice grips. Pull directly towards you.

Splicing/Repairing- If your job requires more than one coil of Finishline XL, it will be necessary to splice the coils together. This is also the way you would repair breaks in the Finishline XL. To use a **Finishline XL Fast Link Splicer** simply put one end of each line being spliced into an opposing hole in the splicer. Look for the arrows on the splicer if you have a question on how to use. Please see Illustration 5.1



Illustration 5.1

## **Electrifying the Fence**

Typically for a fence that is being used as a way to mark ones property or to add additional beauty to the land, Finishline XL alone is quite fine. Finishline XL can be used with an electric fence line if you want to keep livestock in or unwanted wildlife out. Only a livestock owner can determine what is best for his/her animals with regards to how much electric current is needed for safe containment. Finishline XL cannot carry an electrical charge itself, but Finishline XL can be electrified in several ways. We have listed below some common installation techniques.

1- Attach a strand of electric on the inside portion of your posts using an insulator.

2- Wrap an electric line around one of your Finishline XL strands. Using this technique will reduce the amount of labor necessary to upkeep electric. Because Finishline XL rarely loses tension, you can support your electric line by wrapping it around one of your Finishline XL strands. This will eliminate the need for you to re-tension your electric strands. Several options of electric that work with Finishline XL are available at our online store or you can purchase from a local agricultural store in your area. A 17 gauge aluminum wire can be easily wrapped several times around a Finishline XL strand between posts. The electric wire will need to go through an insulator on each post. Finishline XL acts as an insulator and will not short your line. Please see *Illustration 5.2* for example.



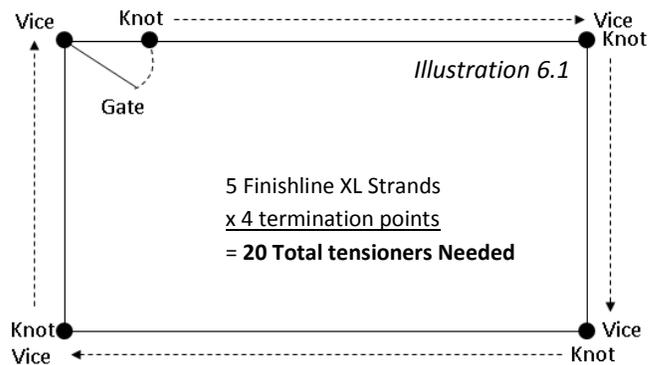
Illustration 5.2

The inclusion of electric is recommended as the best way to reduce animal contact with the fence. Several products are available that will complement your Finishline XL at your local agricultural store.

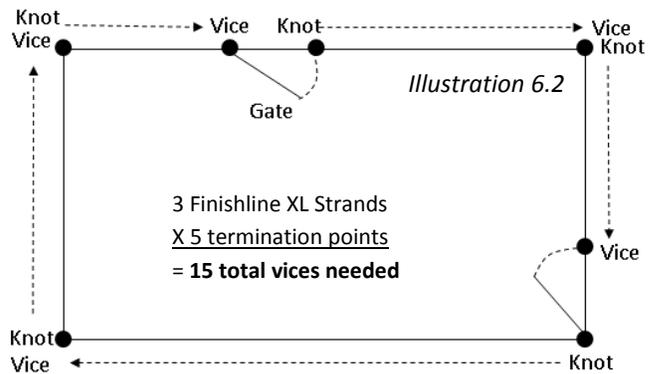
# Calculating the Number of tension devices (Gripple D6 or Finishline XL One

## Way Vice

In *Illustration 6.1*, there are only 4 end posts where the Finishline XL is being terminated and tensioned. These are marked by the word "Vice". In the example provided, this person was using 5 strands of Finishline XL. To determine the amount of One-Way Anchor Vices or D6's required, multiply the number of posts where you are terminating by the number of Finishline XL strands you are installing and this will tell you how many vices or D6's to purchase. In this case, this person needs to purchase 20 One-Way Anchor Vices or 20 D6's.



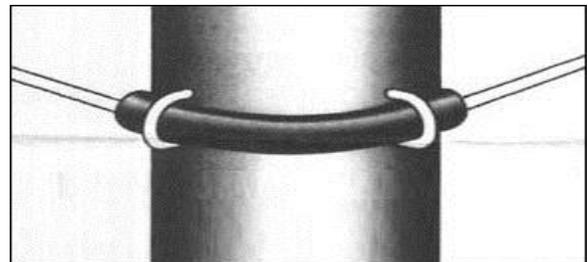
In *Illustration 6.2*, there are 5 end posts where the Finishline XL is being terminated and tensioned. In this example, this person was using 3 strands of Finishline XL. To determine the number of One-Way Anchor Vices required, multiply the number of posts where you are terminating by the number of strands you are installing. This will tell you the number of Vices to purchase. In this case, this person needs to purchase 15 Finishline XL One-Way Anchor Vices.



## Additional Information

With time, Finishline XL may loosen due to movement of fence posts. Fencing should be checked occasionally. If fence can be pulled towards you easily, it is recommended to tighten the fence by pulling on the fence line where the One-Way Anchor Vice or D6 is located. If loss of tension is due to loose posts, it is important to locate the loose post and correct.

Helpful hint: If your gate or a start post is less than 50 feet away from the next corner, feel free to wrap Finishline XL around the outside of the post and tension at the next gate or end post. This will save on the tensioners needed. It is recommended to put some sort of protective covering around the Finishline XL to eliminate abrasion. Common household items work well for this such as an old garden hose. Please see *Illustration 6.3* for example.



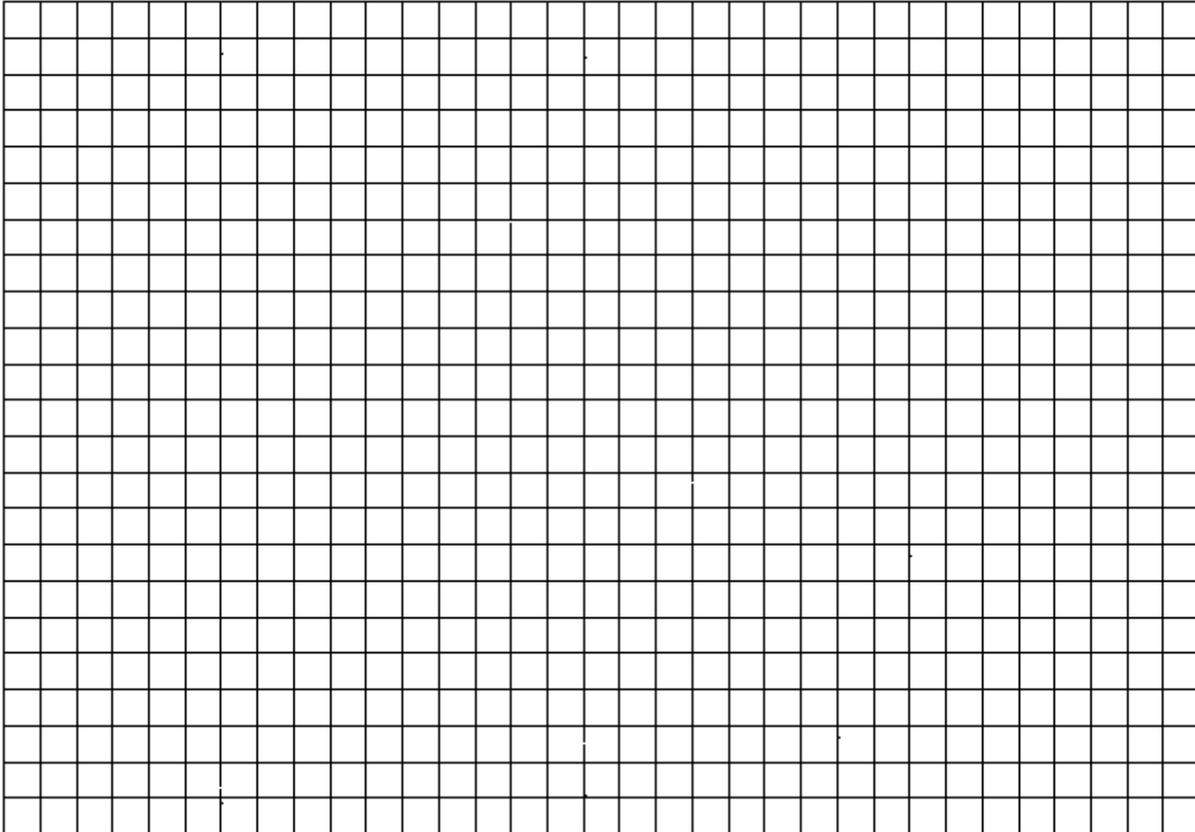
*Illustration 6.3*

## **Measuring Guide**

Wondering how much Finishline XL to buy? Use the chart provided to determine the number of coils required for your fencing project.

Each Coil of Finishline XL has 2640 feet of line (one half mile)

**Please use the grid below to sketch your fence layout.**



Although the information and recommendations in this Finishline XL Installation Guide is presented in good faith and believed to be correct, Ag-Liner, Inc. makes no representations or warranties as to the completeness or accuracy of the information. Information and product is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will Ag-Liner, Inc. be responsible for damages of any nature whatsoever resulting from the use of our products or reliance upon this information.

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